Agarwal, Yuvraj | Courtesy Professor – ECE; Assistant Professor – CS  
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Amvrosiadis, George | Assistant Research Professor – ECE  
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Anna, Shelley L | Associate Professor – MechE; Affiliated Faculty – DSSC  
Ausavarungnirun, Rachata | Post Doctoral Research Associate – ECE  

Bain, Jim | Professor – ECE, MSE; Associate Director – DSSC  

Keywords

Thin-film magnetic device design, fabrication, and testing; magnetic disk and tape recording  
Balram, Nikhil | Adjunct Professor – ECE  
Bandola, Judy | Administrative Coordinator – ECE  
Bauer, Lujo | Associate Professor – ISR, ECE  

Keywords

Computer security, access control, program monitoring, security automata, policy specification  
Bauerle, Claire E | Administrative Coordinator – ECE  
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Berges, Mario  Assistant Professor – CEE; Courtesy Professor – ECE
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Keywords
Coding and signal processing for data storage, biometrics, pattern recognition

Bianchini, Ronald  Adjunct Professor – ECE

Keywords
Distributed fault-tolerant computing and computer networks

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Keywords
Test and diagnosis of heterogeneous, integrated systems

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Brown, Timothy X  Distinguished Service Professor – EPP, ECE

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Keywords
Formal hardware and software verification
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Keywords
CAD and design of analog signal processing circuits and MEMS systems

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Keywords
Optics, Neural Interfaces, Photonic Integrated Circuits, Plasmonics, Sensing

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Keywords
Multimedia coding and streaming, computer vision, pattern recognition, computer graphics, multimodal biometrics

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Keywords
Hyper-redundant mechanisms, coverage, car-painting, de-mining, mobile robots, motion planning, hybrid controls

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Keywords

Computer security, network security, online crime, security economics, usable security, algorithmic applications of game theory

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Keywords

Usable privacy and security

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Keywords
mobile and space robotics, human-robot interaction, mechatronics, automated manufacturing

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Keywords
Databases, data mining, multimedia indexing, performance evaluation

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Keywords
Computer architecture, memory systems, multiprocessor architecture, architectural support for gigascale integration, design evaluation tools

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Keywords

Microelectromechanical systems (MEMS), RF MEMS, inertial/bio/chemical sensors, MEMS CAD, micro-robotics

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Molecular beam epitaxy, scanning tunneling microscopy

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Automatic performance tuning; automatic software libraries generation; code generation for multicore CPUs, high-performance systems (HPC), GPUs, FPGA-acceleration; logic-in-memory and 3DIC systems; domain-specific languages and compilers

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Security, privacy, formal methods, and programming languages.

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Keywords
cloud computing, storage/file systems, operating systems, distributed systems

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Keywords
Computer architecture, operating systems, file systems, disk arrays

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Systems Nanotechnology, Programmable Matter, Reconfigurable Computing, Parallel Computing, Compilers, Architecture

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Keywords

Semiconductor device physics and semiconductor process technology, sensors

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Keywords

Scheduling of computer systems, workload characterization, heavy-tailed distributions

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Keywords

Tribology, nanomanufacturing, multi-scale particle flows

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Keywords

Research in wireless technology and telecommunications policy

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Keywords

Electromagnetics, electromechanics, electrohydrodynamics, microfluidics

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Keywords

Computer architecture, high-level hardware description and synthesis

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Keywords

Haptics, microassembly, dynamically stable mobile robots

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Keywords

power systems, optimization, control, energy networks, decomposition

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Keywords

Mobile and embedded computing, scalable systems, sensor networks, emergency communications systems

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Keywords

Large-scale systems modeling and simulation; power systems control and pricing algorithms; critical infrastructures/interdependencies

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Keywords

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Network economics and pricing, cloud computing, mobile/edge computing

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Keywords

Distributed Information Processing, Multi-Agent Decision Making, Adaptive Stochastic Systems
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Distributed Information Processing, Multi-Agent Decision Making, Adaptive Stochastic Systems
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Keywords

agent-based design and control, S/W engineering for real-time systems, distributed robotics, distributed information systems, Secure Embedded Software/Systems, Sensor Networks
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Keywords

Advanced switch and network architectures, fault-tolerant network architectures, network management and control
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Keywords  
distributed embedded systems, survivable system architecture, dependability  

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Keywords  
Signal processing, biomedical, wavelets, frames, multiresolution, communications  

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Keywords  
Synthesis and verification of embedded control software, distributed control strategies, distributed supervisory control, information and control in wireless sensor networks, discrete event and hybrid dynamic systems  

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Keywords  
Magnetic recording, optical recording and ferroelectric materials  

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**Keywords**

Physical and chemical sensors, transducers, MEMS, magnetism, materials, thin films, data storage and RF devices

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**Keywords**

Magnetic materials, material science, electron microscopy, x-ray diffraction

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**Keywords**

Integrated circuits, computer-aided design

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Digital circuit design, computer architecture, memory design, reconfigurable computing

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Computer-aided design and manufacturing of VLSICs

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Keywords

VLSI/computer architecture, energy aware computing, CAD for integrated systems

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Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.

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Keywords

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Keywords

Computer architecture, hardware/software interaction, operating systems, fault tolerance

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Keywords

fault tolerance, distributed systems, embedded systems, mobile systems
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Keywords

Wireless systems, networking, sensor networks, signal processing, coding for communications, information theory
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Keywords

Telecommunications, wireless networks, internet, spectrum management, communications for homeland security, electronic commerce, developing countries, universal service, security

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Keywords

Information and systems security, focusing on network security (internet, mobile computing, and sensor networks) as well as on trusted computing.

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Keywords

MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS

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Keywords

Design, implementation and modeling of electronic integrated systems

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Platzer, Andre Assistant Professor – CSD; Associate Professor – ECE. Keywords: Verification of embedded control systems, hybrid dynamical systems, cyber-physical systems, distributed hybrid systems, logic and formal methods. Contact: (412)-268-1558 aplatzer@cs.cmu.edu

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Keywords
Electronic circuits, systems design automation

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Keywords
Embedded systems, distributed systems, sensor networks

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Keywords
VLSI CAD, algorithms, analog and digital circuits, automatic speech recognition

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Keywords
Biometric identification, Cyber-Physical Security, Authentication, Pattern recognition

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Keywords
Semiconductor devices, information storage, optoelectronic systems

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Keywords

Networking, Security, Systems, Software-defined networking, Internet-of-Things security

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Keywords

Network protocols, applications, distributed systems, mobile computing, wireless networks

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Keywords

Modern superscalar processor design, instruction-level parallelism and code scheduling

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Keywords

Computer architecture, reliability, context aware mobile computing

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Keywords

Networked embedded control systems, sensors/actuators networks, control theory

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Keywords

Telecommunications policy and economics

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Keywords

Micro/nano-robotics, biologically inspired systems, nanotechnology, MEMS/NEMS

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Keywords

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Wireless communications, nanophotonics, spin wave devices

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Computer networks, distributed systems, pervasive computing

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Keywords

Automatic speech recognition, auditory perception, signal processing

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Keywords

Statistically based CAD/CAM of VLSI circuits

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Keywords

Audio signal processing, music and sound recording applications

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Keywords

Network security; Wireless networking

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Keywords

Autonomous agents, distributed control, power systems, cascading failures

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Computer-aided design of single chip heterogeneous multiprocessing systems

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Keywords

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Keywords

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Keywords

Multi-core processors, Network-on-chip, Digital VLSI

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